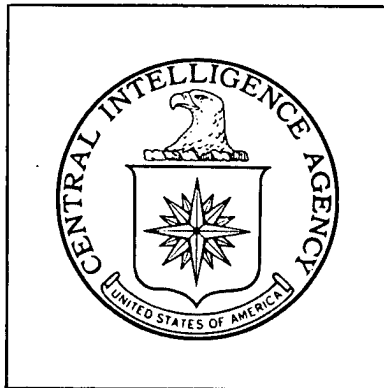


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**DIRECTORATE OF
INTELLIGENCE**

**Industrial Facilities
(Non-Military)**

Basic Imagery Interpretation Report

Major Electric Power Plants

Kansu Province, China



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DATE MAY 1970

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CENTRAL INTELLIGENCE AGENCY
Directorate of Intelligence
Imagery Analysis Service

ABSTRACT

This report, based on 1969 and early 1970 photography, updates the previous basic reports on two major hydro power plants and five major thermal power plants in Kansu Province, north-central China. The cutoff date for information in this report is March 1970.

At Lien-hua-cheng Hydro Power Plant, the auxiliary dam and spillway have been completed since the previous report. On photography of December 1969, the main dam was still under construction but the construction status of the powerhouse could not be determined because it was obscured by shadow. No switching yard or transmission lines were observed, indicating that the plant probably was not operational.

At the Shang-hsuan Hydro Power Plant, the powerhouse roof has been completed and the eighth turbogenerator probably has been installed.

Since the previous reports, no construction or dismantling has been observed at the Chia-yu-kuan, Chih-chin-hsia, Lan-chou, Shan-tan, and Yung-chang thermal power plants.

On the latest photographic coverage, the five thermal power plants were operating and the Shang-hsuan Hydro Power Plant was probably operating.

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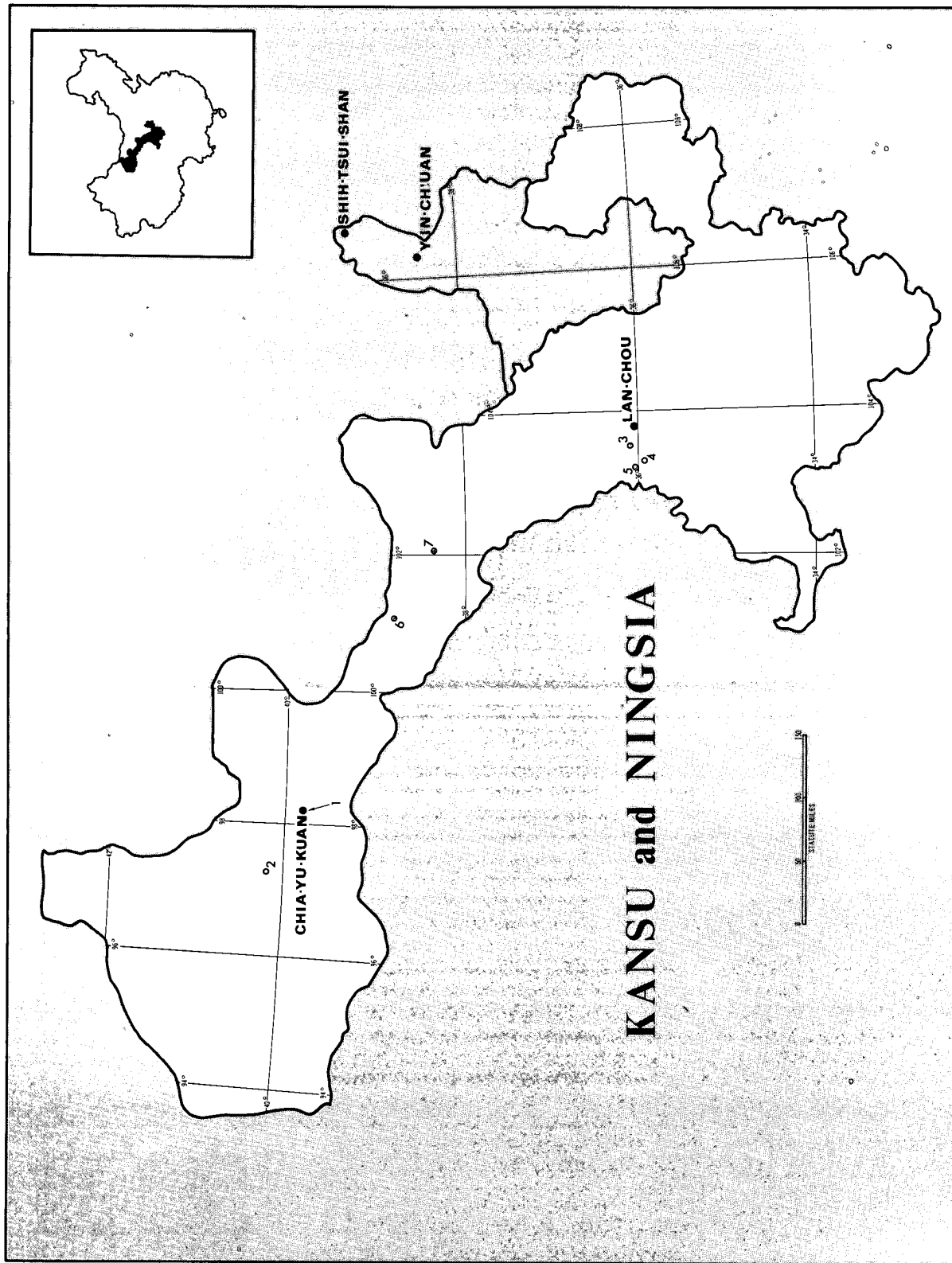


FIGURE 1. LOCATION MAP.

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INTRODUCTION

This report presents information on the current status of each of the seven major electric power plants in Kansu Province and describes any changes since the previous reports.

The following list of major electric power plants in Kansu Province is keyed to Figure 1:

1. Chia-yu-kuan Thermal Power Plant
2. Chih-chin-hsia Thermal Power Plant
3. Lan-chou Thermal Power Plant Hsi-ku
4. Lien-hua-cheng Dam Hydro Power Plant Liu-chia Gorge
5. Shang-hsuan Hydro Power Plant Yen-kuo Gorge
6. Shan-tan Thermal Power Plant
7. Yung-chang Thermal Power Plant

Requirement

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Chia-yu-kuan Thermal Power Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	25X1
47SMQ360085	39-49-10N 098-15-00E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0332-3HL, 3rd ed, Dec 68, Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

No changes have been observed at the Chia-yu-kuan Thermal Power Plant since September 1968, the date of the latest photography used in the previous report.

The plant was operating in March 1970. All three spray ponds were in operation.

REFERENCES

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Document

CIA. BCS 13/0227/69, Chia-yu-kuan Thermal Power Plant, March 1969,
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INSTALLATION OR ACTIVITY NAME

COUNTRY

Chih-chin-hsia Thermal Power Plant

CH

UTM COORDINATES

47TLQ600523

GEOGRAPHIC COORDINATES

40-12-31N 097-21-32E

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MAP REFERENCE

15th RTS. USATC, Series 200, Sheet M0331-24HL, 2nd ed, Aug 68, Scale 1:200,000

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LATEST IMAGERY USED

NEGATION DATE (If required)

NA

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BASIC DESCRIPTION

No changes have been observed at the Chih-chin-hsia Thermal Power Plant since November 1968, the date of the latest photography used in the previous report.

The plant was operating in March 1970. Smoke was emanating from the stack.

REFERENCES

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Document

CIA. BCS 13/0111/69, Chih-chin-hsia Thermal Power Plant, January 1969,

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INSTALLATION OR ACTIVITY NAME		COUNTRY	
Lan-chou Thermal Power Plant Hsi-ku		CH	
UTM COORDINATES	GEOGRAPHIC COORDINATES		
48SUQ758996	36-07-49N 103-37-16E		
MAP REFERENCE			
ACIC. USATC, Series 200. Sheet M0383-22HL. 3rd ed. Dec 68. Scale 1:200,000 (SECRET)			
LATEST IMAGERY USED		NEGATION DATE (If required)	
		NA	

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BASIC DESCRIPTION

No changes have been observed at the Lan-chou Thermal Power Plant Hsi-ku since August 1968, the date of the latest photography used in the previous report.

The plant was operating in December 1969. Heavy smoke was emanating from both stacks.

REFERENCES

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Document

CIA. BCS 13/0009/69, Lan-chou Thermal Power Plant (Hsi-ku), September 1968,
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INSTALLATION OR ACTIVITY NAME		COUNTRY
Lien-hua-cheng Dam Hydro Power Plant Liu-chia Gorge		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
48SUQ507778	35-56-00N 103-20-30E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0384-IHL, 2nd ed, Oct 68. Scale 1:200,000		
(SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

Construction of the dams at Lien-hua-cheng Hydro Power Plant has progressed since December 1968, the date of the latest photography used in the previous report. In December 1969, only the uppermost sections of the main dam remained under construction. The auxiliary dam and spillway had been completed. Progress on the powerhouse could not be determined because it was obscured by shadow. No transformers, switching yard, or transmission lines were observed. The construction support area, including the batch plant, had not been removed. The absence of an observable switching yard and transmission lines and the incomplete state of the main dam indicated that the plant probably was not operational.

REFERENCES

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Document

CIA. RCS 13/0124/69, Lien-hua-cheng Dam and Hydro Power Plant (Liu-chia Gorge), May 1969, (TOP SECRET RUFF)

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Shang-hsuan Hydro Power Plant Yen-kuo Gorge		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
48SUQ445918	36-03-38N 103-16-30E	
MAP REFERENCE		
ACIC. USATC, Series 200, Sheet M0383-2IHL, 3rd ed, Jul 68, Scale 1:200,000 (SECRET)		
LATEST IMAGERY USED		NEGATION DATE (If required)
		NA

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BASIC DESCRIPTION

Since November 1968, the date of the latest photography used in the previous report, the powerhouse roof has been completed at Shang-hsuan Hydro Power Plant. This indicates that the eighth turbogenerator has probably been installed. The plant is considered at least partially operational, even though no associated switching yard can be identified. Lack of recent large scale photography precludes identification of power transforming and transmission equipment at the plant. However, at least three circuits and one uncovered transformer were previously identified at the plant. It is possible that substations in the Lan-chou power grid connected to this plant perform the switching yard functions.

The plant was probably operating in December 1969. Turbulence was observed in the tailrace.

REFERENCES

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Documents

CIA. BCS 13/0118/69, Shang-hsuan Hydro Power Plant (Yen-kuo Gorge), January 1969, (TOP SECRET RUFF)

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CIA. PIR 75010, Chinese Power Plants, Kansu Province, July 1966, (TOP SECRET RUFF)

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INSTALLATION OR ACTIVITY NAME

COUNTRY

Shan-tan Thermal Power Plant

CH

UTM COORDINATES

47SPN812930

GEOGRAPHIC COORDINATES

38-46-30N 101-04-32E

25X1

MAP REFERENCE

ACIC. USATC, Series 200. Sheet M0332-10HL. 2nd ed. Aug 68. Scale 1:200,000

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LATEST IMAGERY USED

NEGATION DATE (If required)

NA

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BASIC DESCRIPTION

No changes have been observed at the Shan-tan Thermal Power Plant since December 1967, the date of the latest photography used in the previous report.

The plant was operating in December 1969. Light smoke was emanating from the stack.

REFERENCES

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Document

CIA. RCS 13/0110/69, Selected Chinese Power Plants, May 1969,

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INSTALLATION OR ACTIVITY NAME		COUNTRY
Yung-chang Thermal Power Plant		CH
UTM COORDINATES 48STT463523	GEOGRAPHIC COORDINATES 38-22-50N 102-05-35E	25X1
MAP REFERENCE ACIC. USATC, Series 200. Sheet M0383-11H1. 3rd ed. Sep 68. Scale 1:200,000 (SECRET)		25X1
LATEST IMAGERY USED	NEGATION DATE (If required)	
	NA	

BASIC DESCRIPTION

No changes have been observed at the Yung-chang Thermal Power Plant since January 1968, the date of the latest photography used in the previous report.

The plant was operating in October 1969. Heavy smoke was emanating from the stack.

REFERENCES

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Document

CIA. BCS 13/0028/69, Yung-chang Thermal Power Plant, September 1968,
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